

Geological Map of East Greenland

74° - 75° N. Lat. and 20° - 23° W. Long.

Geologically mapped by A. Mittelholzer 1938-39 (Caledonian),
Andreas Vischer 1936-38 (post-Caledonian sediments) in collaboration
with Wolf Maync (stratigraphy), Ejgil Nielsen 1937 (Kap
Stosch area), and Wolf Maync 1938 (L. Pendulum Ø and Sabine Ø).
Topography after the map of the Geodetic Institute on a scale of 1:250000

Legend:

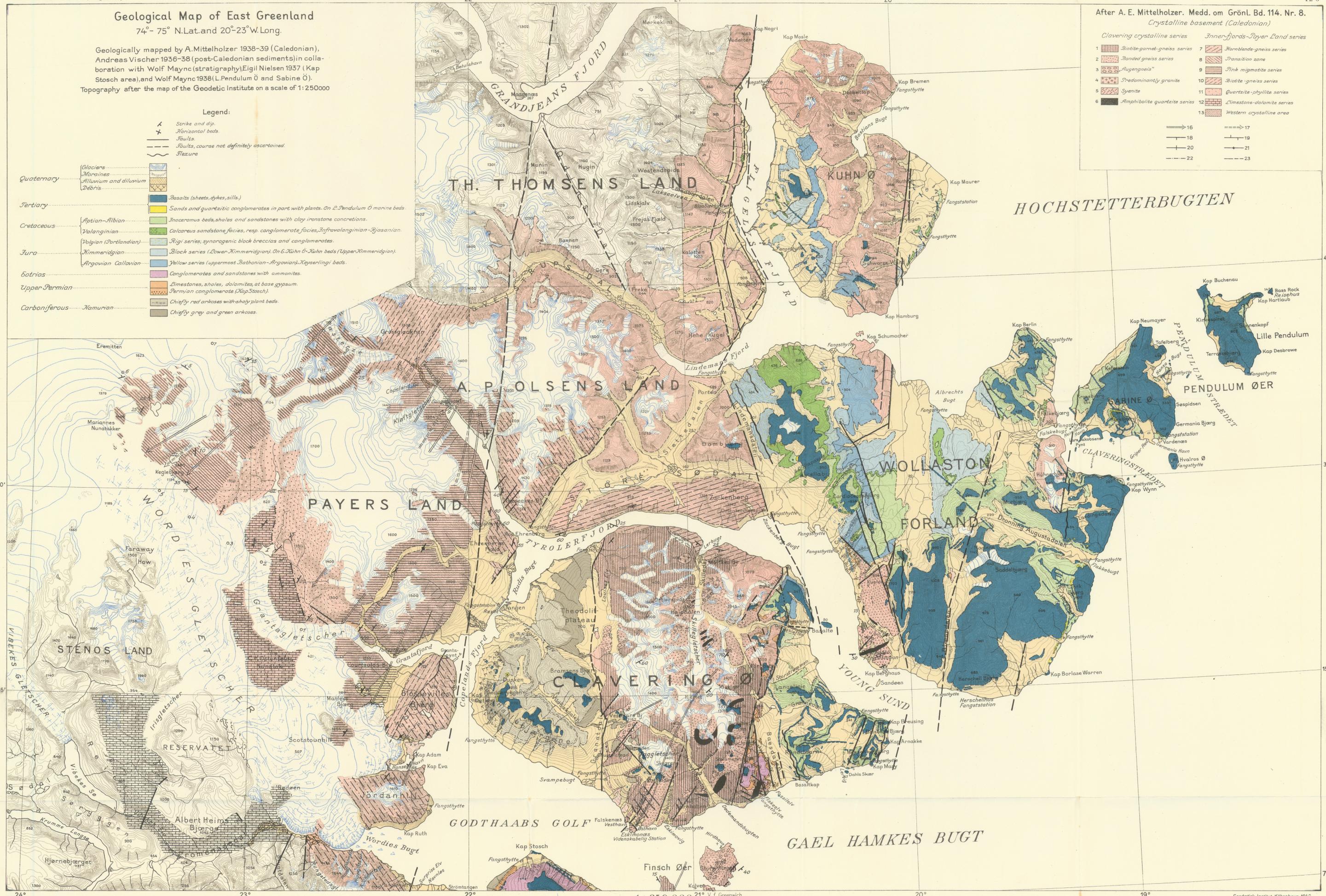
- Strike and dip.
- Horizontal beds.
- Faults.
- Faults, course not definitely ascertained.
- Flexure.

- Quaternary**
 - Glaciers
 - Moraines
 - Alluvium and diluvium
 - Debris
- Tertiary**
 - Basalts (sheets, dykes, sills.)
 - Sands and quartzitic conglomerates in part with plants. On L. Pendulum Ø marine beds
 - Inoceramus beds, shales and sandstones with clay ironstone concretions.
- Cretaceous**
 - Valanginian
 - Calaeneus sandstone facies, resp. conglomerate facies, Trifovlanginian-Ryasianian.
- Jura**
 - Polgian (Portlandian)
 - Block series, synorogenic block breccias and conglomerates.
- Permian**
 - Yellow series (Lower Kimmeridgian). On G. Kühn Ø Kühn beds (Upper Kimmeridgian).
 - Conglomerates and sandstones with ammonites.
- Upper Permian**
 - Limestones, shales, dolomites, at base gypsum.
 - Permian conglomerate (Kap Stosch).
- Carboniferous**
 - Namurian
 - Chiefly red arkoses with shaly part beds.
 - Chiefly grey and green arkoses.

After A. E. Mittelholzer. Medd. om Grøn. Bd. 114. Nr. 8.
Crystalline basement (Caledonian)

- | | |
|--------------------------------|------------------------------|
| 1 Biotite-garnet-gneiss series | 7 Hornblende-gneiss series |
| 2 Banded gneiss series | 8 Transition zone |
| 3 Augengneiss | 9 Pink migmatite series |
| 4 Predominantly granite | 10 Biotite-gneiss series |
| 5 Syenite | 11 Quartzite-phyllite series |
| 6 Amphibolite quartzite series | 12 Limestone-dolomite series |
| | 13 Western crystalline area |

- 16
- 17
- 18
- 19
- 20
- 21
- 22
- 23



1: 250 000

Kilometer 1 0 2 4 6 8 10 12 14 16 18 20 22 24 25 Kilometer
1 Millimeter = 250 Meter

24° 23° 22° 21° 20° 19° 18° 17° 16° 15° 14° 13° 12° 11° 10° 9° 8° 7° 6° 5° 4° 3° 2° 1° 0° 1° 2° 3° 4° 5° 6° 7° 8° 9° 10° 11° 12° 13° 14° 15° 16° 17° 18° 19° 20° 21° 22° 23° 24°

74° 73° 72° 71° 70° 69° 68° 67° 66° 65° 64° 63° 62° 61° 60° 59° 58° 57° 56° 55° 54° 53° 52° 51° 50° 49° 48° 47° 46° 45°

Geodætisk Institut. København 1943